

Consequence Report

24-hr Wind Forecast and Generic Plume LANL Fires June 2011 - Actual Release

Issued: June 28, 2011 23:10 UTC

SUMMARY:

This report describes the health effect consequences associated with a actual unknown release to the atmosphere from a generic source. This is an initial, automated NARAC product, not a final recommendation. Initial predictions are for a limited time period and areas affected may change at later times. Please consult NARAC staff (925-422-7627) for refined, quality assured predictions. Predictions should be confirmed and refined using measurements.

PRODUCTS:

1 Hr Avg Air Conc. at 06/26/2011 22:00:00 MDT

Material: particulate

This product identifies relative magnitudes of air concentration from a release of a non-specific material. These levels should be confirmed by monitoring surveys.

1 Hr Avg Air Conc. at 06/26/2011 23:00:00 MDT

Material: particulate

This product identifies relative magnitudes of air concentration from a release of a non-specific material. These levels should be confirmed by monitoring surveys.

1 Hr Avg Air Conc. at 06/27/2011 00:00:00 MDT

Material: particulate

This product identifies relative magnitudes of air concentration from a release of a non-specific material. These levels should be confirmed by monitoring surveys.

1 Hr Avg Air Conc. at 06/27/2011 01:00:00 MDT

Material: particulate

This product identifies relative magnitudes of air concentration from a release of a non-specific material. These levels should be confirmed by monitoring surveys.

1 Hr Avg Air Conc. at 06/27/2011 02:00:00 MDT

Material: particulate

This product identifies relative magnitudes of air concentration from a release of a non-specific material. These levels should be confirmed by monitoring surveys.

1 Hr Avg Air Conc. at 06/27/2011 03:00:00 MDT

Material: particulate

This product identifies relative magnitudes of air concentration from a release of a non-specific material. These levels should be confirmed by monitoring surveys.

1 Hr Avg Air Conc. at 06/27/2011 04:00:00 MDT

Material: particulate

This product identifies relative magnitudes of air concentration from a release of a non-specific material. These levels should be confirmed by monitoring surveys.

1 Hr Avg Air Conc. at 06/27/2011 05:00:00 MDT

Material: particulate

This product identifies relative magnitudes of air concentration from a release of a non-specific material. These levels should be confirmed by monitoring surveys.

1 Hr Avg Air Conc. at 06/27/2011 06:00:00 MDT

Material: particulate

This product identifies relative magnitudes of air concentration from a release of a non-specific material. These levels should be confirmed by monitoring surveys.

1 Hr Avg Air Conc. at 06/27/2011 07:00:00 MDT

Material: particulate

This product identifies relative magnitudes of air concentration from a release of a non-specific material. These levels should be confirmed by monitoring surveys.

1 Hr Avg Air Conc. at 06/27/2011 08:00:00 MDT

Material: particulate

This product identifies relative magnitudes of air concentration from a release of a non-specific material. These levels should be confirmed by monitoring surveys.

1 Hr Avg Air Conc. at 06/27/2011 09:00:00 MDT

Material: particulate

This product identifies relative magnitudes of air concentration from a release of a non-specific material. These levels should be confirmed by monitoring surveys.

1 Hr Avg Air Conc. at 06/27/2011 10:00:00 MDT

Material: particulate

This product identifies relative magnitudes of air concentration from a release of a non-specific material. These levels should be confirmed by monitoring surveys.

1 Hr Avg Air Conc. at 06/27/2011 11:00:00 MDT

Material: particulate

This product identifies relative magnitudes of air concentration from a release of a non-specific material. These levels should be confirmed by monitoring surveys.

1 Hr Avg Air Conc. at 06/27/2011 12:00:00 MDT

Material: particulate

This product identifies relative magnitudes of air concentration from a release of a non-specific material. These levels should be confirmed by monitoring surveys.

1 Hr Avg Air Conc. at 06/27/2011 13:00:00 MDT

Material: particulate

This product identifies relative magnitudes of air concentration from a release of a non-specific material. These levels should be confirmed by monitoring surveys.

1 Hr Avg Air Conc. at 06/27/2011 14:00:00 MDT

Material: particulate

This product identifies relative magnitudes of air concentration from a release of a non-specific material. These levels should be confirmed by monitoring surveys.

1 Hr Avg Air Conc. at 06/27/2011 15:00:00 MDT

Material: particulate

This product identifies relative magnitudes of air concentration from a release of a non-specific material. These levels should be confirmed by monitoring surveys.

1 Hr Avg Air Conc. at 06/27/2011 16:00:00 MDT

Material: particulate

This product identifies relative magnitudes of air concentration from a release of a non-specific material. These levels should be confirmed by monitoring surveys.

1 Hr Avg Air Conc. at 06/27/2011 17:00:00 MDT

Material: particulate

This product identifies relative magnitudes of air concentration from a release of a non-specific material. These levels should be confirmed by monitoring surveys.

1 Hr Avg Air Conc. at 06/27/2011 18:00:00 MDT

Material: particulate

This product identifies relative magnitudes of air concentration from a release of a non-specific material. These levels should be confirmed by monitoring surveys.

1 Hr Avg Air Conc. at 06/27/2011 19:00:00 MDT

Material: particulate

This product identifies relative magnitudes of air concentration from a release of a non-specific material. These levels should be confirmed by monitoring surveys.

1 Hr Avg Air Conc. at 06/27/2011 20:00:00 MDT

Material: particulate

This product identifies relative magnitudes of air concentration from a release of a non-specific material. These levels should be confirmed by monitoring surveys.

1 Hr Avg Air Conc. at 06/27/2011 21:00:00 MDT

Material: particulate

This product identifies relative magnitudes of air concentration from a release of a non-specific material. These levels should be confirmed by monitoring surveys.

Total Deposition of particulate

Material: particulate

This product identifies areas of possible surface contamination due to deposition of a non-specific material. These levels should be confirmed by monitoring surveys.

SOURCE INFORMATION:

Not For Public Dissemination

Release Start Time: June 27, 2011 03:00 UTC
Release Stop Time: June 28, 2011 03:00 UTC

Release Location: Los Alamos Natl Lab

Source Material and Amount: 1 kg of particulate (100% respirable)

Source Geometry: point released at 0 m

Particle Size Distribution: All particulate is in the respirable range from 0.1 to 10 microns

METEOROLOGY:

NAM12KM Gridded Metdata from 06/26/2011 21:00:00 MDT to 06/28/2011 00:00:00 MDT at 1 hr intervals were used in this calculation

Gridded Met

Source	Obs Time
NAM12KM	June 27, 2011 03:00 UTC
NAM12KM	June 27, 2011 04:00 UTC
NAM12KM	June 27, 2011 05:00 UTC
NAM12KM	June 27, 2011 06:00 UTC
NAM12KM	June 27, 2011 07:00 UTC
NAM12KM	June 27, 2011 08:00 UTC
NAM12KM	June 27, 2011 09:00 UTC
NAM12KM	June 27, 2011 10:00 UTC
NAM12KM	June 27, 2011 11:00 UTC
NAM12KM	June 27, 2011 12:00 UTC
NAM12KM	June 27, 2011 13:00 UTC
NAM12KM	June 27, 2011 14:00 UTC
NAM12KM	June 27, 2011 15:00 UTC
NAM12KM	June 27, 2011 16:00 UTC
NAM12KM	June 27, 2011 17:00 UTC
NAM12KM	June 27, 2011 18:00 UTC
NAM12KM	June 27, 2011 19:00 UTC
NAM12KM	June 27, 2011 20:00 UTC
NAM12KM	June 27, 2011 21:00 UTC

Not For Public Dissemination

Gridded Met

Source	Obs Time
NAM12KM	June 27, 2011 22:00 UTC
NAM12KM	June 27, 2011 23:00 UTC
NAM12KM	June 28, 2011 00:00 UTC
NAM12KM	June 28, 2011 01:00 UTC
NAM12KM	June 28, 2011 02:00 UTC
NAM12KM	June 28, 2011 03:00 UTC
NAM12KM	June 28, 2011 04:00 UTC
NAM12KM	June 28, 2011 05:00 UTC
NAM12KM	June 28, 2011 06:00 UTC

No precipitation is included in this calculation

CONTACT INFORMATION:

Calculation requested on June 27, 2011 03:19 UTC by:

Alan Remick, DOE/HQ 202-586-8100

Approved by: NARAC Operations Approver organization: NARAC

Phone: 925-422-9100 Email: narac@llnl.gov

Approved on: June 27, 2011 03:34 UTC

Classification: Not For Public Dissemination

DISCLAIMER:

These model predictions are intended to be guidance, and are not final recommendations. The accuracy of any prediction will be limited by the accuracy of the input data, such as estimates of the amount of material that becomes airborne and the available meteorological data for the area and time of the incident. Plume predictions may be for a limited time period, and may change at later times if new input data becomes available. Predictions should be confirmed and refined using field measurements. Air and ground concentration may be higher than predicted by this plume model

Not For Public Dissemination

simulation due the limited resolution of this particular simulation. For actual incidents or exercises, consult incident command and subject matter experts from the appropriate coordinating agency before making any decisions based on this model prediction.

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This work performed under the auspices of the U.S. Department of Energy by Lawrence Livermore National Laboratory under Contract DE-AC52-07NA27344.

1 Hr Avg Air Conc. at 06/26/2011 22:00:00 MDT



Map Size: 1.1 km by 1.1 km Id: Production.rcE18799.rcC1

NARAC Operations: (onDuty Assessor); narac@llnl.gov; 925-424-6465

Requested by: {Alan Remick; DOE/HQ; 202-586-8100}

Approved by: {NARAC Operations; NARAC; 925-422-9100}

Effects and Actions			
Description	(g/m3) Extent Area	Population	
No guidelines specified. Possibly contaminated area. Use to confirm with monitoring surveys.	>1.00E-6 203 m 12,494 m2	0	
No guidelines specified. Possibly contaminated area. Use to confirm with monitoring surveys.	>1.00E-7 879 m 191,557 m2	0	

Note: Areas and counts in the table are cumulative. Population Source = LandScan USA V1.0.

Effects or contamination from June 27, 2011 03:00 UTC to June 27, 2011 04:00 UTC

Release Location: 35.825588 N, 106.321080 W

Material: particulate

Generated On: June 27, 2011 03:15 UTC

Model: ADAPT/LODI

Comments:

Release starting at 06/26/2011 21:00:00 MDT for 1 day

gridded met at

06/26/2011 21:00:00 MDT;06/26/2011 22:00:00 MDT;06/26/2011 23:00:00 MDT;

06/27/2011 00:00:00 MDT;06/27/2011 01:00:00 MDT;06/27/2011 02:00:00 MDT;

06/27/2011 03:00:00 MDT;06/27/2011 04:00:00 MDT;06/27/2011 05:00:00 MDT;

06/27/2011 06:00:00 MDT;06/27/2011 07:00:00 MDT;06/27/2011 08:00:00 MDT;

06/27/2011 09:00:00 MDT;06/27/2011 10:00:00 MDT;06/27/2011 11:00:00 MDT;

06/27/2011 12:00:00 MDT;06/27/2011 13:00:00 MDT;06/27/2011 14:00:00 MDT;

06/27/2011 15:00:00 MDT;06/27/2011 16:00:00 MDT;06/27/2011 17:00:00 MDT;

06/27/2011 18:00:00 MDT;06/27/2011 19:00:00 MDT;06/27/2011 20:00:00 MDT;

06/27/2011 21:00:00 MDT;06/27/2011 22:00:00 MDT;06/27/2011 23:00:00 MDT;



1 Hr Avg Air Conc. at 06/26/2011 23:00:00 MDT

24-hr Wind Forecast and Generic Plume LANL Fires June 2011 - Actual Release



Map Size: 1.2 km by 1.2 km Id: Production.rcE18799.rcC1

NARAC Operations: (onDuty Assessor); narac@llnl.gov; 925-424-6465 Requested by: {Alan Remick; DOE/HQ; 202-586-8100} Approved by: {NARAC Operations; NARAC; 925-422-9100}

Effects and Actions			
Description	(g/m3) Extent Area	Population	
No guidelines specified. Possibly contaminated area. Use to confirm with monitoring surveys.	>1.00E-6 191 m 12,394 m2	0	
No guidelines specified. Possibly contaminated area. Use to confirm with monitoring surveys.	>1.00E-7 1,007 m 239,856 m2	0	

Note: Areas and counts in the table are cumulative. Population Source = LandScan USA

Effects or contamination from June 27, 2011 04:00 UTC to June 27, 2011 05:00 UTC

Release Location: 35.825588 N, 106.321080 W

Material: particulate

Generated On: June 27, 2011 03:15 UTC

Model: ADAPT/LODI

Comments:

Release starting at 06/26/2011 21:00:00 MDT for 1 day

gridded met at

06/26/2011 21:00:00 MDT;06/26/2011 22:00:00 MDT;06/26/2011 23:00:00 MDT;

06/27/2011 00:00:00 MDT;06/27/2011 01:00:00 MDT;06/27/2011 02:00:00 MDT;

06/27/2011 03:00:00 MDT;06/27/2011 04:00:00 MDT;06/27/2011 05:00:00 MDT;

06/27/2011 06:00:00 MDT;06/27/2011 07:00:00 MDT;06/27/2011 08:00:00 MDT;

06/27/2011 09:00:00 MDT;06/27/2011 10:00:00 MDT;06/27/2011 11:00:00 MDT;

06/27/2011 12:00:00 MDT;06/27/2011 13:00:00 MDT;06/27/2011 14:00:00 MDT;

06/27/2011 15:00:00 MDT;06/27/2011 16:00:00 MDT;06/27/2011 17:00:00 MDT;

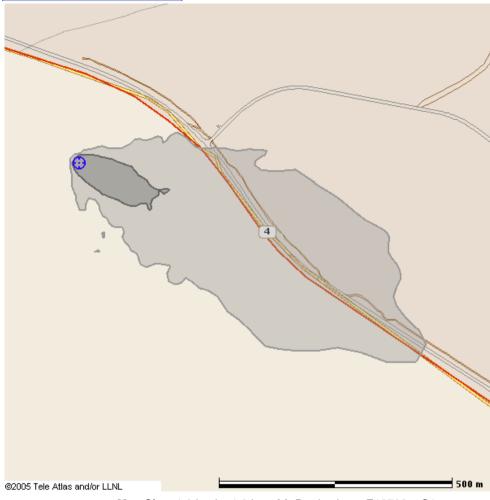
06/27/2011 18:00:00 MDT;06/27/2011 19:00:00 MDT;06/27/2011 20:00:00 MDT;

06/27/2011 21:00:00 MDT;06/27/2011 22:00:00 MDT;06/27/2011 23:00:00 MDT;



1 Hr Avg Air Conc. at 06/27/2011 00:00:00 MDT

24-hr Wind Forecast and Generic Plume LANL Fires June 2011 - Actual Release



Map Size: 1.0 km by 1.0 km ld: Production.rcE18799.rcC1

NARAC Operations: (onDuty Assessor); narac@llnl.gov; 925-424-6465 Requested by: {Alan Remick; DOE/HQ; 202-586-8100} Approved by: {NARAC Operations; NARAC; 925-422-9100}

Effects and Actions		
Description	(g/m3) Extent Area	Population
No guidelines specified. Possibly contaminated area. Use to confirm with monitoring surveys.	>1.00E-6 203 m 11,695 m2	0
No guidelines specified. Possibly contaminated area. Use to confirm with monitoring surveys.	>1.00E-7 841 m 209,550 m2	0

Note: Areas and counts in the table are cumulative. Population Source = LandScan USA

Effects or contamination from June 27, 2011 05:00 UTC to June 27, 2011 06:00 UTC

Release Location: 35.825588 N, 106.321080 W

Material: particulate

Generated On: June 27, 2011 03:15 UTC

Model: ADAPT/LODI

Comments:

Release starting at 06/26/2011 21:00:00 MDT for 1 day

gridded met at

06/26/2011 21:00:00 MDT;06/26/2011 22:00:00 MDT;06/26/2011 23:00:00 MDT;

06/27/2011 00:00:00 MDT;06/27/2011 01:00:00 MDT;06/27/2011 02:00:00 MDT;

06/27/2011 03:00:00 MDT;06/27/2011 04:00:00 MDT;06/27/2011 05:00:00 MDT;

06/27/2011 06:00:00 MDT;06/27/2011 07:00:00 MDT;06/27/2011 08:00:00 MDT;

06/27/2011 09:00:00 MDT;06/27/2011 10:00:00 MDT;06/27/2011 11:00:00 MDT;

06/27/2011 12:00:00 MDT;06/27/2011 13:00:00 MDT;06/27/2011 14:00:00 MDT;

06/27/2011 15:00:00 MDT;06/27/2011 16:00:00 MDT;06/27/2011 17:00:00 MDT;

06/27/2011 18:00:00 MDT;06/27/2011 19:00:00 MDT;06/27/2011 20:00:00 MDT;

06/27/2011 21:00:00 MDT;06/27/2011 22:00:00 MDT;06/27/2011 23:00:00 MDT;



1 Hr Avg Air Conc. at 06/27/2011 01:00:00 MDT

24-hr Wind Forecast and Generic Plume LANL Fires June 2011 - Actual Release



Map Size: 1.1 km by 1.1 km Id: Production.rcE18799.rcC1

NARAC Operations: (onDuty Assessor); narac@llnl.gov; 925-424-6465 Requested by: {Alan Remick; DOE/HQ; 202-586-8100} Approved by: {NARAC Operations; NARAC; 925-422-9100}

Effects and Actions		
Description	(g/m3) Extent Area	Population
No guidelines specified. Possibly contaminated area. Use to confirm with monitoring surveys.	>1.00E-6 198 m 11,495 m2	0
No guidelines specified. Possibly contaminated area. Use to confirm with monitoring surveys.	>1.00E-7 891 m 185,126 m2	0

Note: Areas and counts in the table are cumulative. Population Source = LandScan USA

Effects or contamination from June 27, 2011 06:00 UTC to June 27, 2011 07:00 UTC

Release Location: 35.825588 N, 106.321080 W

Material: particulate

Generated On: June 27, 2011 03:15 UTC

Model: ADAPT/LODI

Comments:

Release starting at 06/26/2011 21:00:00 MDT for 1 day

gridded met at

06/26/2011 21:00:00 MDT;06/26/2011 22:00:00 MDT;06/26/2011 23:00:00 MDT;

06/27/2011 00:00:00 MDT;06/27/2011 01:00:00 MDT;06/27/2011 02:00:00 MDT;

06/27/2011 03:00:00 MDT;06/27/2011 04:00:00 MDT;06/27/2011 05:00:00 MDT;

06/27/2011 06:00:00 MDT;06/27/2011 07:00:00 MDT;06/27/2011 08:00:00 MDT;

06/27/2011 09:00:00 MDT;06/27/2011 10:00:00 MDT;06/27/2011 11:00:00 MDT;

06/27/2011 12:00:00 MDT;06/27/2011 13:00:00 MDT;06/27/2011 14:00:00 MDT;

06/27/2011 15:00:00 MDT;06/27/2011 16:00:00 MDT;06/27/2011 17:00:00 MDT;

06/27/2011 18:00:00 MDT;06/27/2011 19:00:00 MDT;06/27/2011 20:00:00 MDT;

06/27/2011 21:00:00 MDT;06/27/2011 22:00:00 MDT;06/27/2011 23:00:00 MDT;



1 Hr Avg Air Conc. at 06/27/2011 02:00:00 MDT

24-hr Wind Forecast and Generic Plume LANL Fires June 2011 - Actual Release



Map Size: 1.2 km by 1.2 km Id: Production.rcE18799.rcC1

NARAC Operations: (onDuty Assessor); narac@llnl.gov; 925-424-6465
Requested by: {Alan Remick; DOE/HQ; 202-586-8100}
Approved by: {NARAC Operations; NARAC; 925-422-9100}

Effects and Actions		
Description	(g/m3) Extent Area	Population
No guidelines specified. Possibly contaminated area. Use to confirm with monitoring surveys.	>1.00E-6 205 m 12,095 m2	0
No guidelines specified. Possibly contaminated area. Use to confirm with monitoring surveys.	>1.00E-7 994 m 246,076 m2	0

Note: Areas and counts in the table are cumulative. Population Source = LandScan USA V1.0.

Effects or contamination from June 27, 2011 07:00 UTC to June 27, 2011 08:00 UTC

Release Location: 35.825588 N, 106.321080 W

Material: particulate

Generated On: June 27, 2011 03:15 UTC

Model: ADAPT/LODI

Comments:

Release starting at 06/26/2011 21:00:00 MDT for 1 day

gridded met at

06/26/2011 21:00:00 MDT;06/26/2011 22:00:00 MDT;06/26/2011 23:00:00 MDT;

06/27/2011 00:00:00 MDT;06/27/2011 01:00:00 MDT;06/27/2011 02:00:00 MDT;

06/27/2011 03:00:00 MDT;06/27/2011 04:00:00 MDT;06/27/2011 05:00:00 MDT;

06/27/2011 06:00:00 MDT;06/27/2011 07:00:00 MDT;06/27/2011 08:00:00 MDT;

06/27/2011 09:00:00 MDT;06/27/2011 10:00:00 MDT;06/27/2011 11:00:00 MDT;

06/27/2011 12:00:00 MDT;06/27/2011 13:00:00 MDT;06/27/2011 14:00:00 MDT;

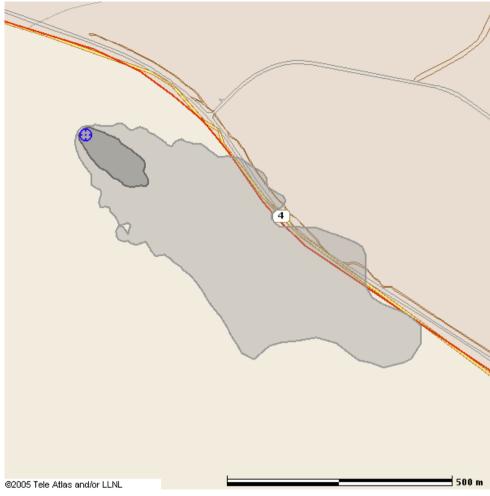
06/27/2011 15:00:00 MDT;06/27/2011 16:00:00 MDT;06/27/2011 17:00:00 MDT;

06/27/2011 18:00:00 MDT;06/27/2011 19:00:00 MDT;06/27/2011 20:00:00 MDT;

06/27/2011 21:00:00 MDT;06/27/2011 22:00:00 MDT;06/27/2011 23:00:00 MDT;

1 Hr Avg Air Conc. at 06/27/2011 03:00:00 MDT

24-hr Wind Forecast and Generic Plume LANL Fires June 2011 - Actual Release



Map Size: 1.1 km by 1.1 km Id: Production.rcE18799.rcC1

NARAC Operations: (onDuty Assessor); narac@llnl.gov; 925-424-6465

Requested by: {Alan Remick; DOE/HQ; 202-586-8100}

Approved by: {NARAC Operations; NARAC; 925-422-9100}

Effects and Actions			
	Description	(g/m3) Extent Area	Population
	No guidelines specified. Possibly contaminated area. Use to confirm with monitoring surveys.	>1.00E-6 200 m 10,795 m2	0
	No guidelines specified. Possibly contaminated area. Use to confirm with monitoring surveys.	>1.00E-7 876 m 188,001 m2	0

Note: Areas and counts in the table are cumulative. Population Source = LandScan USA V1.0.

Effects or contamination from June 27, 2011 08:00 UTC to June 27, 2011 09:00 UTC

Release Location: 35.825588 N, 106.321080 W

Material: particulate

Generated On: June 27, 2011 03:15 UTC

Model: ADAPT/LODI

Comments:

Release starting at 06/26/2011 21:00:00 MDT for 1 day

gridded met at

06/26/2011 21:00:00 MDT;06/26/2011 22:00:00 MDT;06/26/2011 23:00:00 MDT;

06/27/2011 00:00:00 MDT;06/27/2011 01:00:00 MDT;06/27/2011 02:00:00 MDT;

06/27/2011 03:00:00 MDT;06/27/2011 04:00:00 MDT;06/27/2011 05:00:00 MDT;

06/27/2011 06:00:00 MDT;06/27/2011 07:00:00 MDT;06/27/2011 08:00:00 MDT;

06/27/2011 09:00:00 MDT;06/27/2011 10:00:00 MDT;06/27/2011 11:00:00 MDT;

06/27/2011 12:00:00 MDT;06/27/2011 13:00:00 MDT;06/27/2011 14:00:00 MDT;

06/27/2011 15:00:00 MDT;06/27/2011 16:00:00 MDT;06/27/2011 17:00:00 MDT;

06/27/2011 18:00:00 MDT;06/27/2011 19:00:00 MDT;06/27/2011 20:00:00 MDT;

06/27/2011 21:00:00 MDT;06/27/2011 22:00:00 MDT;06/27/2011 23:00:00 MDT;



1 Hr Avg Air Conc. at 06/27/2011 04:00:00 MDT

24-hr Wind Forecast and Generic Plume LANL Fires June 2011 - Actual Release



Map Size: 1.3 km by 1.3 km ld: Production.rcE18799.rcC1

NARAC Operations: (onDuty Assessor); narac@llnl.gov; 925-424-6465 Requested by: {Alan Remick; DOE/HQ; 202-586-8100} Approved by: {NARAC Operations; NARAC; 925-422-9100}

Effects and Actions		
Description	(g/m3) Extent Area	Population
No guidelines specified. Possibly contaminated area. Use to confirm with monitoring surveys.	>1.00E-6 201 m 11,795 m2	0
No guidelines specified. Possibly contaminated area. Use to confirm with monitoring surveys.	>1.00E-7 1,099 m 265,271 m2	0

Note: Areas and counts in the table are cumulative. Population Source = LandScan USA

Effects or contamination from June 27, 2011 09:00 UTC to June 27, 2011 10:00 UTC

Release Location: 35.825588 N, 106.321080 W

Material: particulate

Generated On: June 27, 2011 03:15 UTC

Model: ADAPT/LODI

Comments:

Release starting at 06/26/2011 21:00:00 MDT for 1 day

gridded met at

06/26/2011 21:00:00 MDT;06/26/2011 22:00:00 MDT;06/26/2011 23:00:00 MDT;

06/27/2011 00:00:00 MDT;06/27/2011 01:00:00 MDT;06/27/2011 02:00:00 MDT;

06/27/2011 03:00:00 MDT;06/27/2011 04:00:00 MDT;06/27/2011 05:00:00 MDT;

06/27/2011 06:00:00 MDT;06/27/2011 07:00:00 MDT;06/27/2011 08:00:00 MDT;

06/27/2011 09:00:00 MDT;06/27/2011 10:00:00 MDT;06/27/2011 11:00:00 MDT;

06/27/2011 12:00:00 MDT;06/27/2011 13:00:00 MDT;06/27/2011 14:00:00 MDT;

06/27/2011 15:00:00 MDT;06/27/2011 16:00:00 MDT;06/27/2011 17:00:00 MDT;

06/27/2011 18:00:00 MDT;06/27/2011 19:00:00 MDT;06/27/2011 20:00:00 MDT;

06/27/2011 21:00:00 MDT;06/27/2011 22:00:00 MDT;06/27/2011 23:00:00 MDT;



1 Hr Avg Air Conc. at 06/27/2011 05:00:00 MDT

24-hr Wind Forecast and Generic Plume LANL Fires June 2011 - Actual Release



Map Size: 1.2 km by 1.2 km Id: Production.rcE18799.rcC1

NARAC Operations: (onDuty Assessor); narac@llnl.gov; 925-424-6465 Requested by: {Alan Remick; DOE/HQ; 202-586-8100} Approved by: {NARAC Operations; NARAC; 925-422-9100}

Effects and Actions		
Description	(g/m3) Extent Area	Population
No guidelines specified. Possibly contaminated area. Use to confirm with monitoring surveys.	>1.00E-6 222 m 14,993 m2	0
No guidelines specified. Possibly contaminated area. Use to confirm with monitoring surveys.	>1.00E-7 992 m 234,447 m2	0

Note: Areas and counts in the table are cumulative. Population Source = LandScan USA

Effects or contamination from June 27, 2011 10:00 UTC to June 27, 2011 11:00 UTC

Release Location: 35.825588 N, 106.321080 W

Material: particulate

Generated On: June 27, 2011 03:15 UTC

Model: ADAPT/LODI

Comments:

Release starting at 06/26/2011 21:00:00 MDT for 1 day

gridded met at

06/26/2011 21:00:00 MDT;06/26/2011 22:00:00 MDT;06/26/2011 23:00:00 MDT;

06/27/2011 00:00:00 MDT;06/27/2011 01:00:00 MDT;06/27/2011 02:00:00 MDT;

06/27/2011 03:00:00 MDT;06/27/2011 04:00:00 MDT;06/27/2011 05:00:00 MDT;

06/27/2011 06:00:00 MDT;06/27/2011 07:00:00 MDT;06/27/2011 08:00:00 MDT;

06/27/2011 09:00:00 MDT;06/27/2011 10:00:00 MDT;06/27/2011 11:00:00 MDT;

06/27/2011 12:00:00 MDT;06/27/2011 13:00:00 MDT;06/27/2011 14:00:00 MDT;

06/27/2011 15:00:00 MDT;06/27/2011 16:00:00 MDT;06/27/2011 17:00:00 MDT;

06/27/2011 18:00:00 MDT;06/27/2011 19:00:00 MDT;06/27/2011 20:00:00 MDT;

06/27/2011 21:00:00 MDT;06/27/2011 22:00:00 MDT;06/27/2011 23:00:00 MDT;



1 Hr Avg Air Conc. at 06/27/2011 06:00:00 MDT

24-hr Wind Forecast and Generic Plume LANL Fires June 2011 - Actual Release



Map Size: 1.3 km by 1.3 km ld: Production.rcE18799.rcC1

NARAC Operations: (onDuty Assessor); narac@llnl.gov; 925-424-6465 Requested by: {Alan Remick; DOE/HQ; 202-586-8100} Approved by: {NARAC Operations; NARAC; 925-422-9100}

Effects and Actions		
Description	(g/m3) Extent Area	Population
No guidelines specified. Possibly contaminated area. Use to confirm with monitoring surveys.	>1.00E-5 18.2 m 100.0 m2	0
No guidelines specified. Possibly contaminated area. Use to confirm with monitoring surveys.	>1.00E-6 241 m 18,661 m2	0
No guidelines specified. Possibly contaminated area. Use to confirm with monitoring surveys.	>1.00E-7 1,080 m 250,325 m2	0

Note: Areas and counts in the table are cumulative. Population Source = LandScan USA V1.0.

Effects or contamination from June 27, 2011 11:00 UTC to June 27, 2011 12:00 UTC

Release Location: 35.825588 N, 106.321080 W

Material: particulate

Generated On: June 27, 2011 03:15 UTC

Model: ADAPT/LODI

Comments:

Release starting at 06/26/2011 21:00:00 MDT for 1 day

gridded met at

06/26/2011 21:00:00 MDT;06/26/2011 22:00:00 MDT;06/26/2011 23:00:00 MDT;

06/27/2011 00:00:00 MDT;06/27/2011 01:00:00 MDT;06/27/2011 02:00:00 MDT;

06/27/2011 03:00:00 MDT;06/27/2011 04:00:00 MDT;06/27/2011 05:00:00 MDT;

06/27/2011 06:00:00 MDT;06/27/2011 07:00:00 MDT;06/27/2011 08:00:00 MDT;

06/27/2011 09:00:00 MDT;06/27/2011 10:00:00 MDT;06/27/2011 11:00:00 MDT;

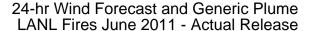
06/27/2011 12:00:00 MDT;06/27/2011 13:00:00 MDT;06/27/2011 14:00:00 MDT;

06/27/2011 15:00:00 MDT;06/27/2011 16:00:00 MDT;06/27/2011 17:00:00 MDT;

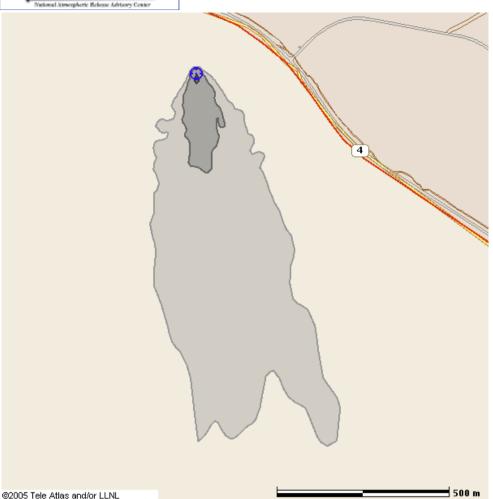
06/27/2011 18:00:00 MDT;06/27/2011 19:00:00 MDT;06/27/2011 20:00:00 MDT;

06/27/2011 21:00:00 MDT;06/27/2011 22:00:00 MDT;06/27/2011 23:00:00 MDT;

1 Hr Avg Air Conc. at 06/27/2011 07:00:00 MDT







Map Size: 1.4 km by 1.4 km ld: Production.rcE18799.rcC1

NARAC Operations: (onDuty Assessor); narac@llnl.gov; 925-424-6465

Requested by: {Alan Remick; DOE/HQ; 202-586-8100}

Approved by: {NARAC Operations; NARAC; 925-422-9100}

Effects and Actions		
Description	(g/m3) Extent Area	Population
No guidelines specified. Possibly contaminated area. Use to confirm with monitoring surveys.	>1.00E-5 28.5 m 200 m2	0
No guidelines specified. Possibly contaminated area. Use to confirm with monitoring surveys.	>1.00E-6 287 m 23,544 m2	0
No guidelines specified. Possibly contaminated area. Use to confirm with monitoring surveys.	>1.00E-7 1,141 m 334,128 m2	0

Note: Areas and counts in the table are cumulative. Population Source = LandScan USA V1.0.

Effects or contamination from June 27, 2011 12:00 UTC to June 27, 2011 13:00 UTC

Release Location: 35.825588 N, 106.321080 W

Material: particulate

Generated On: June 27, 2011 03:15 UTC

Model: ADAPT/LODI

Comments:

Release starting at 06/26/2011 21:00:00 MDT for 1 day

gridded met at

06/26/2011 21:00:00 MDT;06/26/2011 22:00:00 MDT;06/26/2011 23:00:00 MDT;

06/27/2011 00:00:00 MDT;06/27/2011 01:00:00 MDT;06/27/2011 02:00:00 MDT;

06/27/2011 03:00:00 MDT;06/27/2011 04:00:00 MDT;06/27/2011 05:00:00 MDT;

06/27/2011 06:00:00 MDT;06/27/2011 07:00:00 MDT;06/27/2011 08:00:00 MDT;

06/27/2011 09:00:00 MDT;06/27/2011 10:00:00 MDT;06/27/2011 11:00:00 MDT;

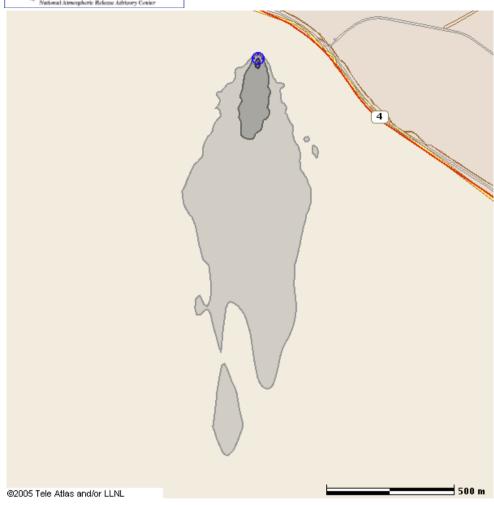
06/27/2011 12:00:00 MDT;06/27/2011 13:00:00 MDT;06/27/2011 14:00:00 MDT;

06/27/2011 15:00:00 MDT;06/27/2011 16:00:00 MDT;06/27/2011 17:00:00 MDT;

06/27/2011 18:00:00 MDT;06/27/2011 19:00:00 MDT;06/27/2011 20:00:00 MDT;

06/27/2011 21:00:00 MDT;06/27/2011 22:00:00 MDT;06/27/2011 23:00:00 MDT;

1 Hr Avg Air Conc. at 06/27/2011 08:00:00 MDT



Map Size: 1.9 km by 1.9 km ld: Production.rcE18799.rcC1

NARAC Operations: (onDuty Assessor); narac@llnl.gov; 925-424-6465

Requested by: {Alan Remick; DOE/HQ; 202-586-8100}

Approved by: {NARAC Operations; NARAC; 925-422-9100}

Effects and Actions			
	Description	(g/m3) Extent Area	Population
	No guidelines specified. Possibly contaminated area. Use to confirm with monitoring surveys.	>1.00E-5 36.0 m 600 m2	0
	No guidelines specified. Possibly contaminated area. Use to confirm with monitoring surveys.	>1.00E-6 315 m 28,133 m2	0
	No guidelines specified. Possibly contaminated area. Use to confirm with monitoring surveys.	>1.00E-7 1,551 m 407,927 m2	0

Note: Areas and counts in the table are cumulative. Population Source = LandScan USA V1.0.

Effects or contamination from June 27, 2011 13:00 UTC to June 27, 2011 14:00 UTC

Release Location: 35.825588 N, 106.321080 W

Material: particulate

Generated On: June 27, 2011 03:15 UTC

Model: ADAPT/LODI

Comments:

Release starting at 06/26/2011 21:00:00 MDT for 1 day

gridded met at

06/26/2011 21:00:00 MDT;06/26/2011 22:00:00 MDT;06/26/2011 23:00:00 MDT;

06/27/2011 00:00:00 MDT;06/27/2011 01:00:00 MDT;06/27/2011 02:00:00 MDT;

06/27/2011 03:00:00 MDT;06/27/2011 04:00:00 MDT;06/27/2011 05:00:00 MDT;

06/27/2011 06:00:00 MDT;06/27/2011 07:00:00 MDT;06/27/2011 08:00:00 MDT; 06/27/2011 09:00:00 MDT;06/27/2011 10:00:00 MDT;06/27/2011 11:00:00 MDT;

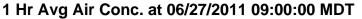
06/27/2011 12:00:00 MDT;06/27/2011 13:00:00 MDT;06/27/2011 14:00:00 MDT;

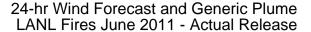
00/27/2011 12:00:00 MD1,00/27/2011 14:00:00 MD1

06/27/2011 15:00:00 MDT;06/27/2011 16:00:00 MDT;06/27/2011 17:00:00 MDT;

06/27/2011 18:00:00 MDT;06/27/2011 19:00:00 MDT;06/27/2011 20:00:00 MDT;

06/27/2011 21:00:00 MDT;06/27/2011 22:00:00 MDT;06/27/2011 23:00:00 MDT;







Map Size: 2.1 km by 2.1 km ld: Production.rcE18799.rcC1

NARAC Operations: (onDuty Assessor); narac@llnl.gov; 925-424-6465 Requested by: {Alan Remick; DOE/HQ; 202-586-8100} Approved by: {NARAC Operations; NARAC; 925-422-9100}

Effects and Actions			
Description	(g/m3) Extent Area	Population	
No guidelines specified. Possibly contaminated area. Use to confirm with monitoring surveys.	>1.00E-5 46.1 m 1,199 m2	0	
No guidelines specified. Possibly contaminated area. Use to confirm with monitoring surveys.	>1.00E-6 446 m 43,110 m2	0	
No guidelines specified. Possibly contaminated area. Use to confirm with monitoring surveys.	>1.00E-7 1,586 m 581,231 m2	0	

Note: Areas and counts in the table are cumulative. Population Source = LandScan USA V1.0.

Effects or contamination from June 27, 2011 14:00 UTC to June 27, 2011 15:00 UTC

Release Location: 35.825588 N, 106.321080 W

Material: particulate

Generated On: June 27, 2011 03:15 UTC

Model: ADAPT/LODI

Comments:

Release starting at 06/26/2011 21:00:00 MDT for 1 day

gridded met at

06/26/2011 21:00:00 MDT;06/26/2011 22:00:00 MDT;06/26/2011 23:00:00 MDT;

06/27/2011 00:00:00 MDT;06/27/2011 01:00:00 MDT;06/27/2011 02:00:00 MDT;

06/27/2011 03:00:00 MDT;06/27/2011 04:00:00 MDT;06/27/2011 05:00:00 MDT;

06/27/2011 06:00:00 MDT;06/27/2011 07:00:00 MDT;06/27/2011 08:00:00 MDT;

06/27/2011 09:00:00 MDT;06/27/2011 10:00:00 MDT;06/27/2011 11:00:00 MDT;

06/27/2011 12:00:00 MDT;06/27/2011 13:00:00 MDT;06/27/2011 14:00:00 MDT;

06/27/2011 15:00:00 MDT;06/27/2011 16:00:00 MDT;06/27/2011 17:00:00 MDT;

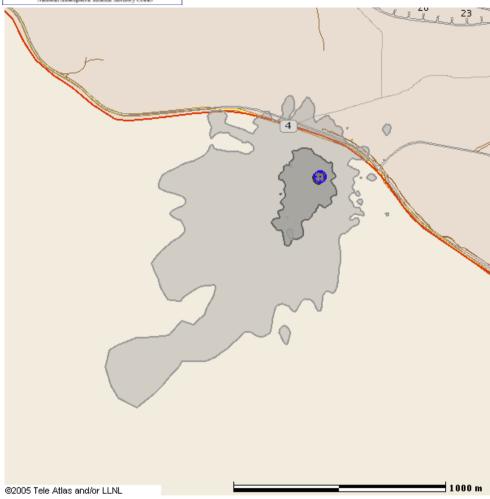
06/27/2011 18:00:00 MDT;06/27/2011 19:00:00 MDT;06/27/2011 20:00:00 MDT;

06/27/2011 21:00:00 MDT;06/27/2011 22:00:00 MDT;06/27/2011 23:00:00 MDT;



1 Hr Avg Air Conc. at 06/27/2011 10:00:00 MDT

24-hr Wind Forecast and Generic Plume LANL Fires June 2011 - Actual Release



Map Size: 2.3 km by 2.3 km ld: Production.rcE18799.rcC1

NARAC Operations: (onDuty Assessor); narac@llnl.gov; 925-424-6465 Requested by: {Alan Remick; DOE/HQ; 202-586-8100} Approved by: {NARAC Operations; NARAC; 925-422-9100}

Effects and Actions			
Description	(g/m3) Extent Area	Population	
No guidelines specified. Possibly contaminated area. Use to confirm with monitoring surveys.	>1.00E-5 39.0 m 2,199 m2	0	
No guidelines specified. Possibly contaminated area. Use to confirm with monitoring surveys.	>1.00E-6 363 m 76,920 m2	0	
No guidelines specified. Possibly contaminated area. Use to confirm with monitoring surveys.	>1.00E-7 1,415 m 850,286 m2	0	

Note: Areas and counts in the table are cumulative. Population Source = LandScan USA V1.0.

Effects or contamination from June 27, 2011 15:00 UTC to June 27, 2011 16:00 UTC

Release Location: 35.825588 N, 106.321080 W

Material: particulate

Generated On: June 27, 2011 03:15 UTC

Model: ADAPT/LODI

Comments:

Release starting at 06/26/2011 21:00:00 MDT for 1 day

gridded met at

06/26/2011 21:00:00 MDT;06/26/2011 22:00:00 MDT;06/26/2011 23:00:00 MDT;

06/27/2011 00:00:00 MDT;06/27/2011 01:00:00 MDT;06/27/2011 02:00:00 MDT;

06/27/2011 03:00:00 MDT;06/27/2011 04:00:00 MDT;06/27/2011 05:00:00 MDT;

06/27/2011 06:00:00 MDT;06/27/2011 07:00:00 MDT;06/27/2011 08:00:00 MDT;

06/27/2011 09:00:00 MDT;06/27/2011 10:00:00 MDT;06/27/2011 11:00:00 MDT;

06/27/2011 12:00:00 MDT;06/27/2011 13:00:00 MDT;06/27/2011 14:00:00 MDT;

06/27/2011 15:00:00 MDT;06/27/2011 16:00:00 MDT;06/27/2011 17:00:00 MDT;

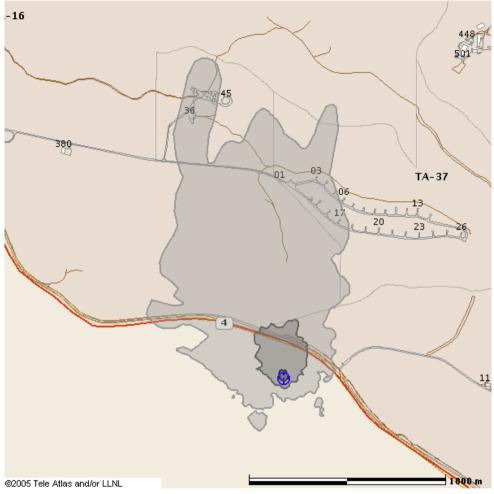
06/27/2011 18:00:00 MDT;06/27/2011 19:00:00 MDT;06/27/2011 20:00:00 MDT;

06/27/2011 21:00:00 MDT;06/27/2011 22:00:00 MDT;06/27/2011 23:00:00 MDT;



1 Hr Avg Air Conc. at 06/27/2011 11:00:00 MDT

24-hr Wind Forecast and Generic Plume LANL Fires June 2011 - Actual Release



Map Size: 2.5 km by 2.5 km ld: Production.rcE18799.rcC1

NARAC Operations: (onDuty Assessor); narac@llnl.gov; 925-424-6465

Requested by: {Alan Remick; DOE/HQ; 202-586-8100}

Approved by: {NARAC Operations; NARAC; 925-422-9100}

Effects and Actions			
	Description	(g/m3) Extent Area	Population
	No guidelines specified. Possibly contaminated area. Use to confirm with monitoring surveys.	>1.00E-5 0.05 km 0.002 km2	0
	No guidelines specified. Possibly contaminated area. Use to confirm with monitoring surveys.	>1.00E-6 0.3 km 0.07 km2	0
	No guidelines specified. Possibly contaminated area. Use to confirm with monitoring surveys.	>1.00E-7 1.7 km 1.1 km2	0

Note: Areas and counts in the table are cumulative. Population Source = LandScan USA V1.0.

Effects or contamination from June 27, 2011 16:00 UTC to June 27, 2011 17:00 UTC

Release Location: 35.825588 N, 106.321080 W

Material: particulate

Generated On: June 27, 2011 03:15 UTC

Model: ADAPT/LODI

Comments:

Release starting at 06/26/2011 21:00:00 MDT for 1 day

gridded met at

 $06/26/2011\ 21:00:00\ MDT; 06/26/2011\ 22:00:00\ MDT; 06/26/2011\ 23:00:00\ MDT;$

06/27/2011 00:00:00 MDT;06/27/2011 01:00:00 MDT;06/27/2011 02:00:00 MDT;

06/27/2011 03:00:00 MDT;06/27/2011 04:00:00 MDT;06/27/2011 05:00:00 MDT;

06/27/2011 06:00:00 MDT;06/27/2011 07:00:00 MDT;06/27/2011 08:00:00 MDT;

06/27/2011 09:00:00 MDT;06/27/2011 10:00:00 MDT;06/27/2011 11:00:00 MDT;

06/27/2011 12:00:00 MDT;06/27/2011 13:00:00 MDT;06/27/2011 14:00:00 MDT;

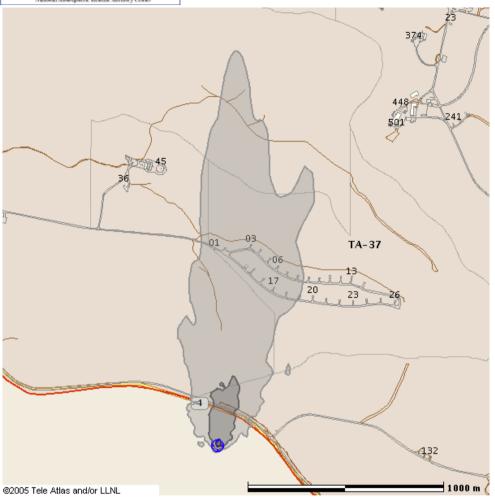
06/27/2011 15:00:00 MDT;06/27/2011 16:00:00 MDT;06/27/2011 17:00:00 MDT;

06/27/2011 18:00:00 MDT;06/27/2011 19:00:00 MDT;06/27/2011 20:00:00 MDT;

06/27/2011 21:00:00 MDT;06/27/2011 22:00:00 MDT;06/27/2011 23:00:00 MDT;

1 Hr Avg Air Conc. at 06/27/2011 12:00:00 MDT

24-hr Wind Forecast and Generic Plume LANL Fires June 2011 - Actual Release



Map Size: 2.5 km by 2.5 km ld: Production.rcE18799.rcC1

NARAC Operations: (onDuty Assessor); narac@llnl.gov; 925-424-6465

Requested by: {Alan Remick; DOE/HQ; 202-586-8100}

Approved by: {NARAC Operations; NARAC; 925-422-9100}

Effects and Actions		
Description	(g/m3) Extent Area	Population
No guidelines specified. Possibly contaminated area. Use to confirm with monitoring surveys.	>1.00E-5 36.9 m 800 m2	0
No guidelines specified. Possibly contaminated area. Use to confirm with monitoring surveys.	>1.00E-6 365 m 38,067 m2	0
No guidelines specified. Possibly contaminated area. Use to confirm with monitoring surveys.	>1.00E-7 2,015 m 765,292 m2	0

Note: Areas and counts in the table are cumulative. Population Source = LandScan USA V1.0.

Effects or contamination from June 27, 2011 17:00 UTC to June 27, 2011 18:00 UTC

Release Location: 35.825588 N, 106.321080 W

Material: particulate

Generated On: June 27, 2011 03:15 UTC

Model: ADAPT/LODI

Comments:

Release starting at 06/26/2011 21:00:00 MDT for 1 day

gridded met at

06/26/2011 21:00:00 MDT;06/26/2011 22:00:00 MDT;06/26/2011 23:00:00 MDT;

06/27/2011 00:00:00 MDT;06/27/2011 01:00:00 MDT;06/27/2011 02:00:00 MDT;

06/27/2011 03:00:00 MDT;06/27/2011 04:00:00 MDT;06/27/2011 05:00:00 MDT;

06/27/2011 06:00:00 MDT;06/27/2011 07:00:00 MDT;06/27/2011 08:00:00 MDT;

06/27/2011 09:00:00 MDT;06/27/2011 10:00:00 MDT;06/27/2011 11:00:00 MDT;

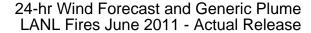
06/27/2011 12:00:00 MDT;06/27/2011 13:00:00 MDT;06/27/2011 14:00:00 MDT;

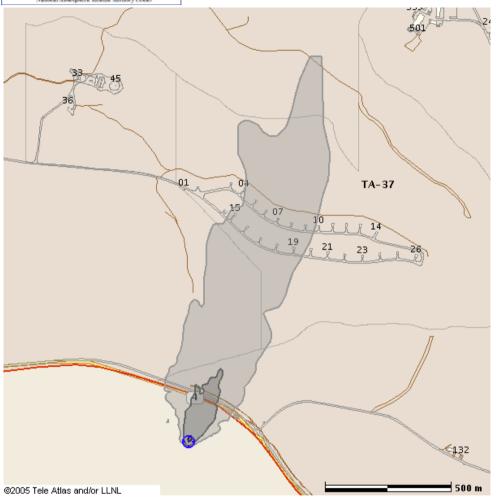
06/27/2011 15:00:00 MDT;06/27/2011 16:00:00 MDT;06/27/2011 17:00:00 MDT;

06/27/2011 18:00:00 MDT;06/27/2011 19:00:00 MDT;06/27/2011 20:00:00 MDT;

06/27/2011 21:00:00 MDT;06/27/2011 22:00:00 MDT;06/27/2011 23:00:00 MDT;

1 Hr Avg Air Conc. at 06/27/2011 13:00:00 MDT





Map Size: 1.9 km by 1.9 km ld: Production.rcE18799.rcC1

NARAC Operations: (onDuty Assessor); narac@llnl.gov; 925-424-6465 Requested by: {Alan Remick; DOE/HQ; 202-586-8100} Approved by: {NARAC Operations; NARAC; 925-422-9100}

Effects and Actions			
Description	(g/m3) Extent Area	Population	
No guidelines specified. Possibly contaminated area. Use to confirm with monitoring surveys.	>1.00E-5 26.0 m 400 m2	0	
No guidelines specified. Possibly contaminated area. Use to confirm with monitoring surveys.	>1.00E-6 318 m 24,073 m2	0	
No guidelines specified. Possibly contaminated area. Use to confirm with monitoring surveys.	>1.00E-7 1,618 m 444,345 m2	0	

Note: Areas and counts in the table are cumulative. Population Source = LandScan USA V1.0.

Effects or contamination from June 27, 2011 18:00 UTC to June 27, 2011 19:00 UTC

Release Location: 35.825588 N, 106.321080 W

Material: particulate

Generated On: June 27, 2011 03:15 UTC

Model: ADAPT/LODI

Comments:

Release starting at 06/26/2011 21:00:00 MDT for 1 day

gridded met at

06/26/2011 21:00:00 MDT;06/26/2011 22:00:00 MDT;06/26/2011 23:00:00 MDT;

06/27/2011 00:00:00 MDT;06/27/2011 01:00:00 MDT;06/27/2011 02:00:00 MDT;

06/27/2011 03:00:00 MDT;06/27/2011 04:00:00 MDT;06/27/2011 05:00:00 MDT;

06/27/2011 06:00:00 MDT;06/27/2011 07:00:00 MDT;06/27/2011 08:00:00 MDT;

06/27/2011 09:00:00 MDT;06/27/2011 10:00:00 MDT;06/27/2011 11:00:00 MDT;

06/27/2011 12:00:00 MDT;06/27/2011 13:00:00 MDT;06/27/2011 14:00:00 MDT;

06/27/2011 15:00:00 MDT;06/27/2011 16:00:00 MDT;06/27/2011 17:00:00 MDT;

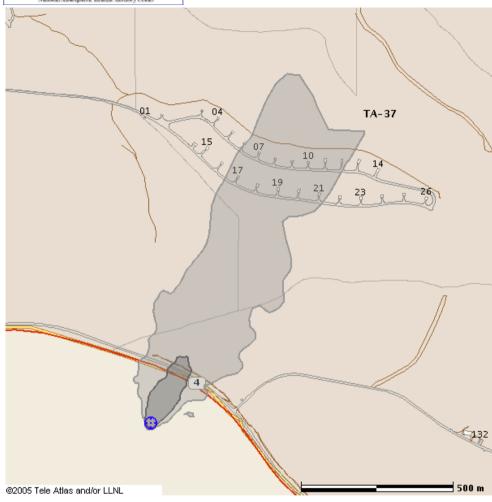
06/27/2011 18:00:00 MDT;06/27/2011 19:00:00 MDT;06/27/2011 20:00:00 MDT;

06/27/2011 21:00:00 MDT;06/27/2011 22:00:00 MDT;06/27/2011 23:00:00 MDT;



1 Hr Avg Air Conc. at 06/27/2011 14:00:00 MDT

24-hr Wind Forecast and Generic Plume LANL Fires June 2011 - Actual Release



Map Size: 1.6 km by 1.6 km ld: Production.rcE18799.rcC1

NARAC Operations: (onDuty Assessor); narac@llnl.gov; 925-424-6465

Requested by: {Alan Remick; DOE/HQ; 202-586-8100}

Approved by: {NARAC Operations; NARAC; 925-422-9100}

Effects and Actions			
	Description	(g/m3) Extent Area	Population
	No guidelines specified. Possibly contaminated area. Use to confirm with monitoring surveys.	>1.00E-6 250 m 17,728 m2	0
	No guidelines specified. Possibly contaminated area. Use to confirm with monitoring surveys.	>1.00E-7 1,242 m 339,744 m2	0

Note: Areas and counts in the table are cumulative. Population Source = LandScan USA V1.0.

Effects or contamination from June 27, 2011 19:00 UTC to June 27, 2011 20:00 UTC

Release Location: 35.825588 N, 106.321080 W

Material: particulate

Generated On: June 27, 2011 03:15 UTC

Model: ADAPT/LODI

Comments:

Release starting at 06/26/2011 21:00:00 MDT for 1 day

gridded met at

06/26/2011 21:00:00 MDT;06/26/2011 22:00:00 MDT;06/26/2011 23:00:00 MDT;

06/27/2011 00:00:00 MDT;06/27/2011 01:00:00 MDT;06/27/2011 02:00:00 MDT;

06/27/2011 03:00:00 MDT;06/27/2011 04:00:00 MDT;06/27/2011 05:00:00 MDT;

06/27/2011 06:00:00 MDT;06/27/2011 07:00:00 MDT;06/27/2011 08:00:00 MDT;

06/27/2011 09:00:00 MDT;06/27/2011 10:00:00 MDT;06/27/2011 11:00:00 MDT;

06/27/2011 12:00:00 MDT;06/27/2011 13:00:00 MDT;06/27/2011 14:00:00 MDT;

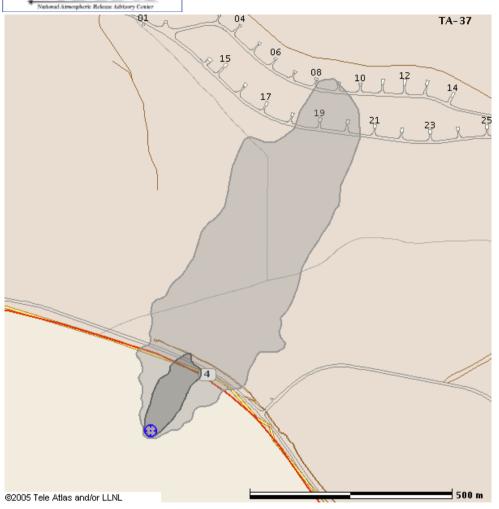
06/27/2011 15:00:00 MDT;06/27/2011 16:00:00 MDT;06/27/2011 17:00:00 MDT;

06/27/2011 18:00:00 MDT;06/27/2011 19:00:00 MDT;06/27/2011 20:00:00 MDT;

06/27/2011 21:00:00 MDT;06/27/2011 22:00:00 MDT;06/27/2011 23:00:00 MDT;

24-hr Wind Forecast and Generic Plume LANL Fires June 2011 - Actual Release

1 Hr Avg Air Conc. at 06/27/2011 15:00:00 MDT



Map Size: 1.2 km by 1.2 km ld: Production.rcE18799.rcC1

NARAC Operations: (onDuty Assessor); narac@llnl.gov; 925-424-6465 Requested by: {Alan Remick; DOE/HQ; 202-586-8100} Approved by: {NARAC Operations; NARAC; 925-422-9100}

Effects and Actions				
Description	(g/m3) Extent Area	Population		
No guidelines specified. Possibly contaminated area. Use to confirm with monitoring surveys.	>1.00E-6 213 m 14,094 m2	0		
No guidelines specified. Possibly contaminated area. Use to confirm with monitoring surveys.	>1.00E-7 980 m 212,379 m2	0		

Note: Areas and counts in the table are cumulative. Population Source = LandScan USA

Effects or contamination from June 27, 2011 20:00 UTC to June 27, 2011 21:00 UTC

Release Location: 35.825588 N, 106.321080 W

Material: particulate

Generated On: June 27, 2011 03:15 UTC

Model: ADAPT/LODI

Comments:

Release starting at 06/26/2011 21:00:00 MDT for 1 day

gridded met at

06/26/2011 21:00:00 MDT;06/26/2011 22:00:00 MDT;06/26/2011 23:00:00 MDT;

06/27/2011 00:00:00 MDT;06/27/2011 01:00:00 MDT;06/27/2011 02:00:00 MDT;

06/27/2011 03:00:00 MDT;06/27/2011 04:00:00 MDT;06/27/2011 05:00:00 MDT;

06/27/2011 06:00:00 MDT;06/27/2011 07:00:00 MDT;06/27/2011 08:00:00 MDT;

06/27/2011 09:00:00 MDT;06/27/2011 10:00:00 MDT;06/27/2011 11:00:00 MDT;

06/27/2011 12:00:00 MDT;06/27/2011 13:00:00 MDT;06/27/2011 14:00:00 MDT;

06/27/2011 15:00:00 MDT;06/27/2011 16:00:00 MDT;06/27/2011 17:00:00 MDT;

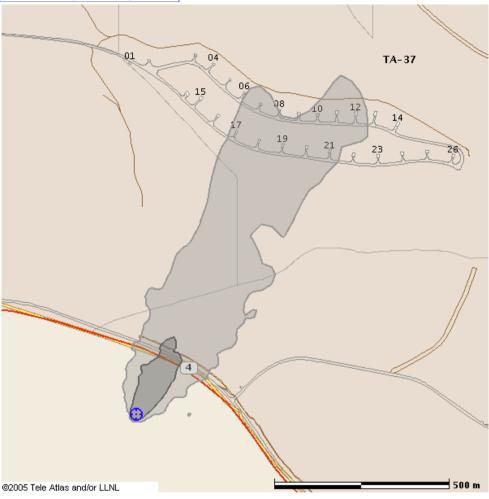
06/27/2011 18:00:00 MDT;06/27/2011 19:00:00 MDT;06/27/2011 20:00:00 MDT;

06/27/2011 21:00:00 MDT;06/27/2011 22:00:00 MDT;06/27/2011 23:00:00 MDT;



1 Hr Avg Air Conc. at 06/27/2011 16:00:00 MDT

24-hr Wind Forecast and Generic Plume LANL Fires June 2011 - Actual Release



Map Size: 1.4 km by 1.4 km ld: Production.rcE18799.rcC1

NARAC Operations: (onDuty Assessor); narac@llnl.gov; 925-424-6465

Requested by: {Alan Remick; DOE/HQ; 202-586-8100}

Approved by: {NARAC Operations; NARAC; 925-422-9100}

Effects and Actions			
	Description	(g/m3) Extent Area	Population
	No guidelines specified. Possibly contaminated area. Use to confirm with monitoring surveys.	>1.00E-6 246 m 16,905 m2	0
	No guidelines specified. Possibly contaminated area. Use to confirm with monitoring surveys.	>1.00E-7 1,134 m 249,594 m2	0

Note: Areas and counts in the table are cumulative. Population Source = LandScan USA V1.0.

Effects or contamination from June 27, 2011 21:00 UTC to June 27, 2011 22:00 UTC

Release Location: 35.825588 N, 106.321080 W

Material: particulate

Generated On: June 27, 2011 03:15 UTC

Model: ADAPT/LODI

Comments:

Release starting at 06/26/2011 21:00:00 MDT for 1 day

gridded met at

06/26/2011 21:00:00 MDT;06/26/2011 22:00:00 MDT;06/26/2011 23:00:00 MDT;

06/27/2011 00:00:00 MDT;06/27/2011 01:00:00 MDT;06/27/2011 02:00:00 MDT;

06/27/2011 03:00:00 MDT;06/27/2011 04:00:00 MDT;06/27/2011 05:00:00 MDT;

06/27/2011 06:00:00 MDT;06/27/2011 07:00:00 MDT;06/27/2011 08:00:00 MDT;

06/27/2011 09:00:00 MDT;06/27/2011 10:00:00 MDT;06/27/2011 11:00:00 MDT;

06/27/2011 12:00:00 MDT;06/27/2011 13:00:00 MDT;06/27/2011 14:00:00 MDT;

06/27/2011 15:00:00 MDT;06/27/2011 16:00:00 MDT;06/27/2011 17:00:00 MDT;

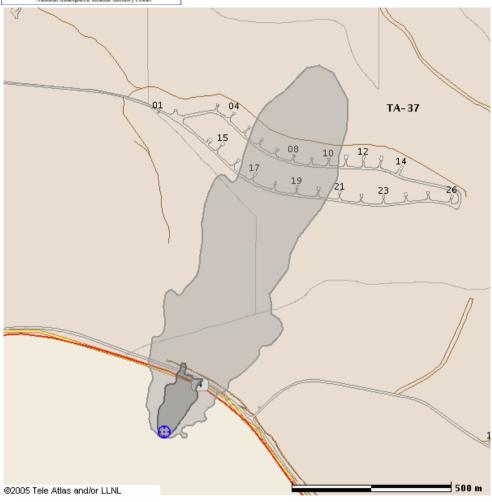
06/27/2011 18:00:00 MDT;06/27/2011 19:00:00 MDT;06/27/2011 20:00:00 MDT;

06/27/2011 21:00:00 MDT;06/27/2011 22:00:00 MDT;06/27/2011 23:00:00 MDT;



1 Hr Avg Air Conc. at 06/27/2011 17:00:00 MDT

24-hr Wind Forecast and Generic Plume LANL Fires June 2011 - Actual Release



Map Size: 1.5 km by 1.5 km ld: Production.rcE18799.rcC1

NARAC Operations: (onDuty Assessor); narac@llnl.gov; 925-424-6465

Requested by: {Alan Remick; DOE/HQ; 202-586-8100}

Approved by: {NARAC Operations; NARAC; 925-422-9100}

Effects and Actions			
	Description	(g/m3) Extent Area	Population
	No guidelines specified. Possibly contaminated area. Use to confirm with monitoring surveys.	>1.00E-6 224 m 15,238 m2	0
	No guidelines specified. Possibly contaminated area. Use to confirm with monitoring surveys.	>1.00E-7 1,251 m 334,021 m2	0

Note: Areas and counts in the table are cumulative. Population Source = LandScan USA V1.0.

Effects or contamination from June 27, 2011 22:00 UTC to June 27, 2011 23:00 UTC

Release Location: 35.825588 N, 106.321080 W

Material: particulate

Generated On: June 27, 2011 03:15 UTC

Model: ADAPT/LODI

Comments:

Release starting at 06/26/2011 21:00:00 MDT for 1 day

gridded met at

06/26/2011 21:00:00 MDT;06/26/2011 22:00:00 MDT;06/26/2011 23:00:00 MDT;

06/27/2011 00:00:00 MDT;06/27/2011 01:00:00 MDT;06/27/2011 02:00:00 MDT;

06/27/2011 03:00:00 MDT;06/27/2011 04:00:00 MDT;06/27/2011 05:00:00 MDT;

06/27/2011 06:00:00 MDT;06/27/2011 07:00:00 MDT;06/27/2011 08:00:00 MDT;

06/27/2011 09:00:00 MDT;06/27/2011 10:00:00 MDT;06/27/2011 11:00:00 MDT;

06/27/2011 12:00:00 MDT;06/27/2011 13:00:00 MDT;06/27/2011 14:00:00 MDT;

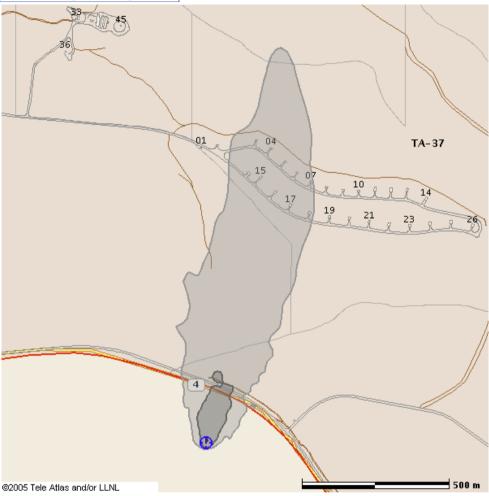
06/27/2011 15:00:00 MDT;06/27/2011 16:00:00 MDT;06/27/2011 17:00:00 MDT;

06/27/2011 18:00:00 MDT;06/27/2011 19:00:00 MDT;06/27/2011 20:00:00 MDT;

06/27/2011 21:00:00 MDT;06/27/2011 22:00:00 MDT;06/27/2011 23:00:00 MDT;

1 Hr Avg Air Conc. at 06/27/2011 18:00:00 MDT

24-hr Wind Forecast and Generic Plume LANL Fires June 2011 - Actual Release



Map Size: 1.7 km by 1.7 km ld: Production.rcE18799.rcC1

NARAC Operations: (onDuty Assessor); narac@llnl.gov; 925-424-6465

Requested by: {Alan Remick; DOE/HQ; 202-586-8100}

Approved by: {NARAC Operations; NARAC; 925-422-9100}

Effects and Actions			
	Description	(g/m3) Extent Area	Population
	No guidelines specified. Possibly contaminated area. Use to confirm with monitoring surveys.	>1.00E-5 16.8 m 100.0 m2	0
	No guidelines specified. Possibly contaminated area. Use to confirm with monitoring surveys.	>1.00E-6 247 m 17,061 m2	0
	No guidelines specified. Possibly contaminated area. Use to confirm with monitoring surveys.	>1.00E-7 1,363 m 337,281 m2	0

Note: Areas and counts in the table are cumulative. Population Source = LandScan USA V1.0.

Effects or contamination from June 27, 2011 23:00 UTC to June 28, 2011 00:00 UTC

Release Location: 35.825588 N, 106.321080 W

Material: particulate

Generated On: June 27, 2011 03:15 UTC

Model: ADAPT/LODI

Comments:

Release starting at 06/26/2011 21:00:00 MDT for 1 day

gridded met at

06/26/2011 21:00:00 MDT;06/26/2011 22:00:00 MDT;06/26/2011 23:00:00 MDT;

06/27/2011 00:00:00 MDT;06/27/2011 01:00:00 MDT;06/27/2011 02:00:00 MDT;

06/27/2011 03:00:00 MDT;06/27/2011 04:00:00 MDT;06/27/2011 05:00:00 MDT;

06/27/2011 06:00:00 MDT;06/27/2011 07:00:00 MDT;06/27/2011 08:00:00 MDT;

06/27/2011 09:00:00 MDT;06/27/2011 10:00:00 MDT;06/27/2011 11:00:00 MDT;

06/27/2011 12:00:00 MDT;06/27/2011 13:00:00 MDT;06/27/2011 14:00:00 MDT;

06/27/2011 15:00:00 MDT;06/27/2011 16:00:00 MDT;06/27/2011 17:00:00 MDT;

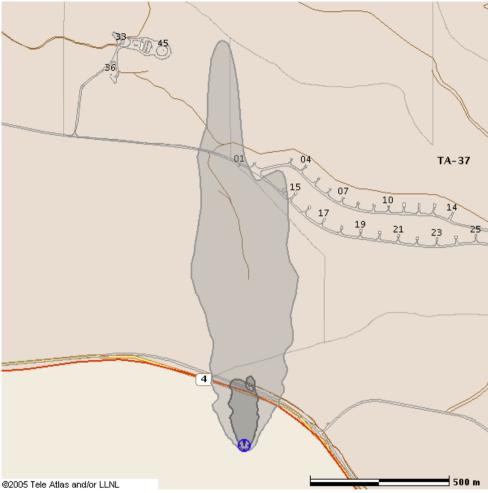
06/27/2011 18:00:00 MDT;06/27/2011 19:00:00 MDT;06/27/2011 20:00:00 MDT;

06/27/2011 21:00:00 MDT;06/27/2011 22:00:00 MDT;06/27/2011 23:00:00 MDT;



1 Hr Avg Air Conc. at 06/27/2011 19:00:00 MDT

24-hr Wind Forecast and Generic Plume LANL Fires June 2011 - Actual Release



Map Size: 1.8 km by 1.8 km ld: Production.rcE18799.rcC1

NARAC Operations: (onDuty Assessor); narac@llnl.gov; 925-424-6465 Requested by: {Alan Remick; DOE/HQ; 202-586-8100} Approved by: {NARAC Operations; NARAC; 925-422-9100}

Effects and Actions			
Description	(g/m3) Extent Area	Population	
No guidelines specified. Possibly contaminated area. Use to confirm with monitoring surveys.	>1.00E-5 22.3 m 200 m2	0	
No guidelines specified. Possibly contaminated area. Use to confirm with monitoring surveys.	>1.00E-6 248 m 20,122 m2	0	
No guidelines specified. Possibly contaminated area. Use to confirm with monitoring surveys.	>1.00E-7 1,452 m 335,405 m2	0	

Note: Areas and counts in the table are cumulative. Population Source = LandScan USA V1.0.

Effects or contamination from June 28, 2011 00:00 UTC to June 28, 2011 01:00 UTC

Release Location: 35.825588 N, 106.321080 W

Material: particulate

Generated On: June 27, 2011 03:15 UTC

Model: ADAPT/LODI

Comments:

Release starting at 06/26/2011 21:00:00 MDT for 1 day

gridded met at

06/26/2011 21:00:00 MDT;06/26/2011 22:00:00 MDT;06/26/2011 23:00:00 MDT;

06/27/2011 00:00:00 MDT;06/27/2011 01:00:00 MDT;06/27/2011 02:00:00 MDT;

06/27/2011 03:00:00 MDT;06/27/2011 04:00:00 MDT;06/27/2011 05:00:00 MDT;

06/27/2011 06:00:00 MDT;06/27/2011 07:00:00 MDT;06/27/2011 08:00:00 MDT;

06/27/2011 09:00:00 MDT;06/27/2011 10:00:00 MDT;06/27/2011 11:00:00 MDT;

06/27/2011 12:00:00 MDT;06/27/2011 13:00:00 MDT;06/27/2011 14:00:00 MDT;

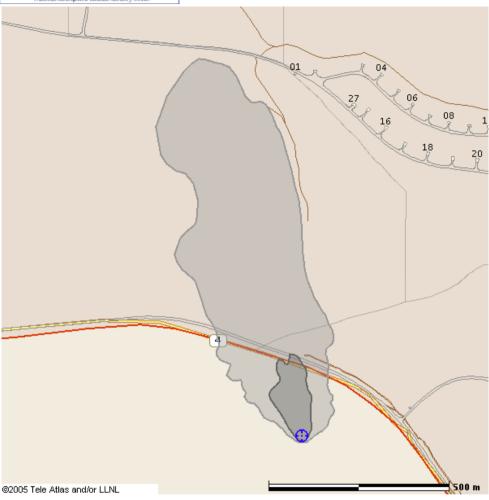
06/27/2011 15:00:00 MDT;06/27/2011 16:00:00 MDT;06/27/2011 17:00:00 MDT;

06/27/2011 18:00:00 MDT;06/27/2011 19:00:00 MDT;06/27/2011 20:00:00 MDT;

06/27/2011 21:00:00 MDT;06/27/2011 22:00:00 MDT;06/27/2011 23:00:00 MDT;

1 Hr Avg Air Conc. at 06/27/2011 20:00:00 MDT

24-hr Wind Forecast and Generic Plume LANL Fires June 2011 - Actual Release



Map Size: 1.4 km by 1.4 km ld: Production.rcE18799.rcC1

NARAC Operations: (onDuty Assessor); narac@llnl.gov; 925-424-6465

Requested by: {Alan Remick; DOE/HQ; 202-586-8100}

Approved by: {NARAC Operations; NARAC; 925-422-9100}

Effects and Actions				
	Description	(g/m3) Extent Area	Population	
	No guidelines specified. Possibly contaminated area. Use to confirm with monitoring surveys.	>1.00E-5 13.0 m 100.0 m2	0	
	No guidelines specified. Possibly contaminated area. Use to confirm with monitoring surveys.	>1.00E-6 229 m 17,986 m2	0	
	No guidelines specified. Possibly contaminated area. Use to confirm with monitoring surveys.	>1.00E-7 1,084 m 287,283 m2	0	

Note: Areas and counts in the table are cumulative. Population Source = LandScan USA V1.0.

Effects or contamination from June 28, 2011 01:00 UTC to June 28, 2011 02:00 UTC

Release Location: 35.825588 N, 106.321080 W

Material: particulate

Generated On: June 27, 2011 03:15 UTC

Model: ADAPT/LODI

Comments:

Release starting at 06/26/2011 21:00:00 MDT for 1 day

gridded met at

06/26/2011 21:00:00 MDT;06/26/2011 22:00:00 MDT;06/26/2011 23:00:00 MDT;

06/27/2011 00:00:00 MDT;06/27/2011 01:00:00 MDT;06/27/2011 02:00:00 MDT;

06/27/2011 03:00:00 MDT;06/27/2011 04:00:00 MDT;06/27/2011 05:00:00 MDT;

06/27/2011 06:00:00 MDT;06/27/2011 07:00:00 MDT;06/27/2011 08:00:00 MDT;

06/27/2011 09:00:00 MDT;06/27/2011 10:00:00 MDT;06/27/2011 11:00:00 MDT;

06/27/2011 12:00:00 MDT;06/27/2011 13:00:00 MDT;06/27/2011 14:00:00 MDT;

00/27/2011 12:00:00 MD1,00/27/2011 14:00:00 MD1

06/27/2011 15:00:00 MDT;06/27/2011 16:00:00 MDT;06/27/2011 17:00:00 MDT;

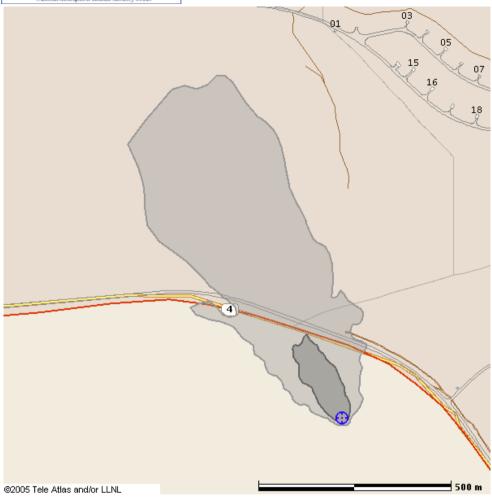
06/27/2011 18:00:00 MDT;06/27/2011 19:00:00 MDT;06/27/2011 20:00:00 MDT;

06/27/2011 21:00:00 MDT;06/27/2011 22:00:00 MDT;06/27/2011 23:00:00 MDT;



1 Hr Avg Air Conc. at 06/27/2011 21:00:00 MDT

24-hr Wind Forecast and Generic Plume LANL Fires June 2011 - Actual Release



Map Size: 1.3 km by 1.3 km ld: Production.rcE18799.rcC1

NARAC Operations: (onDuty Assessor); narac@llnl.gov; 925-424-6465
Requested by: {Alan Remick; DOE/HQ; 202-586-8100}
Approved by: {NARAC Operations; NARAC; 925-422-9100}

Effects and Actions					
	Description	(g/m3) Extent Area	Population		
	No guidelines specified. Possibly contaminated area. Use to confirm with monitoring surveys.	>1.00E-6 236 m 16,248 m2	0		
	No guidelines specified. Possibly contaminated area. Use to confirm with monitoring surveys.	>1.00E-7 960 m 274,865 m2	0		

Note: Areas and counts in the table are cumulative. Population Source = LandScan USA V1.0.

Effects or contamination from June 28, 2011 02:00 UTC to June 28, 2011 03:00 UTC

Release Location: 35.825588 N, 106.321080 W

Material: particulate

Generated On: June 27, 2011 03:15 UTC

Model: ADAPT/LODI

Comments:

Release starting at 06/26/2011 21:00:00 MDT for 1 day

gridded met at

06/26/2011 21:00:00 MDT;06/26/2011 22:00:00 MDT;06/26/2011 23:00:00 MDT;

06/27/2011 00:00:00 MDT;06/27/2011 01:00:00 MDT;06/27/2011 02:00:00 MDT;

06/27/2011 03:00:00 MDT;06/27/2011 04:00:00 MDT;06/27/2011 05:00:00 MDT;

06/27/2011 06:00:00 MDT;06/27/2011 07:00:00 MDT;06/27/2011 08:00:00 MDT;

06/27/2011 09:00:00 MDT;06/27/2011 10:00:00 MDT;06/27/2011 11:00:00 MDT;

06/27/2011 12:00:00 MDT;06/27/2011 13:00:00 MDT;06/27/2011 14:00:00 MDT;

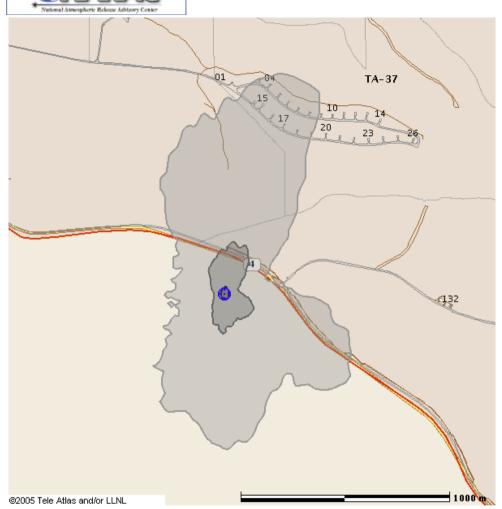
06/27/2011 15:00:00 MDT;06/27/2011 16:00:00 MDT;06/27/2011 17:00:00 MDT;

06/27/2011 18:00:00 MDT;06/27/2011 19:00:00 MDT;06/27/2011 20:00:00 MDT;

06/27/2011 21:00:00 MDT;06/27/2011 22:00:00 MDT;06/27/2011 23:00:00 MDT;







Map Size: 2.3 km by 2.3 km ld: Production.rcE18799.rcC1

NARAC Operations: (onDuty Assessor); narac@llnl.gov; 925-424-6465

Requested by: {Alan Remick; DOE/HQ; 202-586-8100}

Approved by: {NARAC Operations; NARAC; 925-422-9100}

Effects and Actions					
	Description	(g/m2) Extent Area	Population		
	No guidelines specified. Possibly contaminated area. Use to confirm with monitoring surveys.	>0.0010 0.03 km 0.002 km2	0		
	No guidelines specified. Possibly contaminated area. Use to confirm with monitoring surveys.	>0.0001 0.3 km 0.06 km2	0		
	No guidelines specified. Possibly contaminated area. Use to confirm with monitoring surveys.	>1.00E-5 1.1 km 1.0 km2	0		

Note: Areas and counts in the table are cumulative. Population Source = LandScan USA V1.0.

Effects or contamination at June 28, 2011 03:00 UTC Release Location: 35.825588 N, 106.321080 W

Material: particulate

Generated On: June 27, 2011 03:16 UTC

Model: ADAPT/LODI

Comments:

Release starting at 06/26/2011 21:00:00 MDT for 1 day

gridded met at

06/26/2011 21:00:00 MDT;06/26/2011 22:00:00 MDT;06/26/2011 23:00:00 MDT; 06/27/2011 00:00:00 MDT;06/27/2011 01:00:00 MDT;06/27/2011 02:00:00 MDT; 06/27/2011 03:00:00 MDT;06/27/2011 04:00:00 MDT;06/27/2011 05:00:00 MDT;

06/27/2011 06:00:00 MDT;06/27/2011 07:00:00 MDT;06/27/2011 08:00:00 MDT;

06/27/2011 09:00:00 MDT;06/27/2011 10:00:00 MDT;06/27/2011 11:00:00 MDT;

06/27/2011 12:00:00 MDT;06/27/2011 13:00:00 MDT;06/27/2011 14:00:00 MDT;

06/27/2011 15:00:00 MDT;06/27/2011 16:00:00 MDT;06/27/2011 17:00:00 MDT;

06/27/2011 18:00:00 MDT;06/27/2011 19:00:00 MDT;06/27/2011 20:00:00 MDT;

06/27/2011 21:00:00 MDT;06/27/2011 22:00:00 MDT;06/27/2011 23:00:00 MDT;